

The pectoral fin of *Tiktaalik roseae* and the origin of the

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Citation Report

#	ARTICLE	IF	CITATIONS
2	The origin of higher taxa: macroevolutionary processes, and the case of the mammals. <i>Acta Zoologica</i> , 2006, 88, 3-22.	0.6	40
3	Scanty evidence and changing opinions about evolving appendages. <i>Zoologica Scripta</i> , 2006, 35, 667-668.	0.7	6
4	A firm step from water to land. <i>Nature</i> , 2006, 440, 748-749.	13.7	89
5	A Devonian tetrapod-like fish and the evolution of the tetrapod body plan. <i>Nature</i> , 2006, 440, 757-763.	13.7	371
6	An exceptional Devonian fish from Australia sheds light on tetrapod origins. <i>Nature</i> , 2006, 444, 199-202.	13.7	98
7	Biostratigraphic and biogeographic context for tetrapod origins during the Devonian: Australian evidence. <i>Alcheringa</i> , 2006, 30, 409-428.	0.5	13
8	Limbs: Gains and losses. <i>Journal of Biosciences</i> , 2006, 31, 181-183.	0.5	0
9	A voyage through the wonders and unsolved mysteries of skeletal development and evolution. <i>Developmental Dynamics</i> , 2006, 235, 3186-3187.	0.8	1
10	Bushes in the Tree of Life. <i>PLoS Biology</i> , 2006, 4, e352.	2.6	251
11	Putting the Pieces Together. <i>Science</i> , 2007, 317, 1502-1503.	6.0	1
12	Terrestrial-style feeding in a very early aquatic tetrapod is supported by evidence from experimental analysis of suture morphology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7134-7138.	3.3	56
13	Devonian climate change, breathing, and the origin of the tetrapod stem group. <i>Integrative and Comparative Biology</i> , 2007, 47, 510-523.	0.9	104
14	Ancestral and recently recruited global control of the Hox genes in development. <i>Current Opinion in Genetics and Development</i> , 2007, 17, 422-427.	1.5	57
15	FINS INTO LIMBS: EVOLUTION, DEVELOPMENT AND TRANSFORMATION B K. Hall . 2007. University of Chicago Press. Chicago. ISBN: 978-0226313375. 344 \$ 45.00 (softcover).. <i>Copeia</i> , 2007, 2007, 1050-1061.	1.4	0
16	The concept of correlated progression as the basis of a model for the evolutionary origin of major new taxa. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 1667-1673.	1.2	34
17	Toward an Integrated System of Clade Names. <i>Systematic Biology</i> , 2007, 56, 956-974.	2.7	48
18	Fish fingers: digit homologues in sarcopterygian fish fins. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 757-768.	0.6	117
19	An autopodial-like pattern of Hox expression in the fins of a basal actinopterygian fish. <i>Nature</i> , 2007, 447, 473-476.	13.7	124

#	ARTICLE	IF	CITATIONS
20	First discovery of a primitive coelacanth fin fills a major gap in the evolution of lobed fins and limbs. <i>Evolution & Development</i> , 2007, 9, 329-337.	1.1	57
21	SCALE AND HIERARCHY IN MACROEVOLUTION. <i>Palaeontology</i> , 2007, 50, 87-109.	1.0	130
22	The Morphostatic Limit for a Model of Skeletal Pattern Formation in the Vertebrate Limb. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 460-483.	0.9	25
23	The Concept of Co-option: Why Evolution Often Looks Miraculous. <i>Evolution: Education and Outreach</i> , 2008, 1, 247-258.	0.3	45
24	The Evolution of Complex Organs. <i>Evolution: Education and Outreach</i> , 2008, 1, 358-389.	0.3	46
25	Regulation of articular chondrocyte proliferation and differentiation by indian hedgehog and parathyroid hormone-related protein in mice. <i>Arthritis and Rheumatism</i> , 2008, 58, 3788-3797.	6.7	96
26	<i>Ventastega curonica</i> and the origin of tetrapod morphology. <i>Nature</i> , 2008, 453, 1199-1204.	13.7	75
27	The cranial endoskeleton of <i>Tiktaalik roseae</i> . <i>Nature</i> , 2008, 455, 925-929.	13.7	54
28	The pectoral fin of <i>Panderichthys</i> and the origin of digits. <i>Nature</i> , 2008, 456, 636-638.	13.7	118
29	Ossification patterns in the tetrapod limb – conservation and divergence from morphogenetic events. <i>Biological Reviews</i> , 2008, 83, 571-600.	4.7	72
30	The autopod: Its formation during limb development. <i>Development Growth and Differentiation</i> , 2008, 50, S177-87.	0.6	30
31	Phylogenics & Tree-Thinking. <i>American Biology Teacher</i> , 2008, 70, 222-229.	0.1	36
32	Ever Since Owen: Changing Perspectives on the Early Evolution of Tetrapods. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2008, 39, 571-592.	3.8	82
33	History, objectivity, and the construction of molecular phylogenies. <i>Studies in History and Philosophy of Science Part C: Studies in History and Philosophy of Biological and Biomedical Sciences</i> , 2008, 39, 451-468.	0.8	71
34	Tri-phasic expression of posterior Hox genes during development of pectoral fins in zebrafish: Implications for the evolution of vertebrate paired appendages. <i>Developmental Biology</i> , 2008, 322, 220-233.	0.9	110
35	Phylogenies & Tree-Thinking. <i>American Biology Teacher</i> , 2008, 70, 222-229.	0.1	38
36	Science, evolution, and creationism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3-4.	3.3	52
37	Understanding of bat wing evolution takes flight. <i>Genes and Development</i> , 2008, 22, 121-124.	2.7	19

#	ARTICLE	IF	CITATIONS
38	Paleontology's Greatest Hits. The Paleontological Society Papers, 2008, 14, 17-40.	0.8	1
39	Emerging onto a Tangled Bank. Science, 2009, 324, 341-342.	6.0	0
40	Distribution, geometry and palaeogeography of the Frasnian (Late Devonian) reef complexes of Banks Island, NWT, western arctic, Canada. Geological Society Special Publication, 2009, 314, 109-124.	0.8	2
41	The evolution of gnathostome development: Insight from chondrichthyan embryology. Genesis, 2009, 47, 825-841.	0.8	11
42	The Fishâ€™Tetrapod Transition: New Fossils and Interpretations. Evolution: Education and Outreach, 2009, 2, 213-223.	0.3	20
43	How the Adaptation Got its Start. Evolution: Education and Outreach, 2009, 2, 612-616.	0.3	4
44	Deep homology and the origins of evolutionary novelty. Nature, 2009, 457, 818-823.	13.7	685
45	The trouble with flippers: a report on the prevalence of digital anomalies in Cetacea. Zoological Journal of the Linnean Society, 2009, 155, 722-735.	1.0	20
46	On the phylogenetic position of <i>Gogonasus andrewsae</i> Long 1985, within the Tetrapodomorpha. Acta Zoologica, 2009, 90, 285-296.	0.6	25
47	The humerus of <i>Panderichthys</i> in three dimensions and its significance in the context of the fishâ€™tetrapod transition. Acta Zoologica, 2009, 90, 297-305.	0.6	16
48	Morphogenetic approach to the formation of paired limbs in the course of tetrapodization. Biology Bulletin, 2009, 36, 139-147.	0.1	3
49	Development of limbs in urodeles and the origin of tetrapod limbs. Biology Bulletin, 2009, 36, 148-158.	0.1	1
51	Variations in the sequences of BMP2 imply different mechanisms for the evolution of morphological diversity in vertebrates. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2009, 4, 100-104.	0.4	3
53	The Fin to Limb Transition: New Data, Interpretations, and Hypotheses from Paleontology and Developmental Biology. Annual Review of Earth and Planetary Sciences, 2009, 37, 163-179.	4.6	93
54	Contrasting Developmental Trajectories in the Earliest Known Tetrapod Forelimbs. Science, 2009, 324, 364-367.	6.0	48
55	Stem sarcopterygians have primitive polybasal fin articulation. Biology Letters, 2009, 5, 372-375.	1.0	34
56	Evolution of the hip and pelvis. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 80, 1-39.	1.2	51
57	Evolution in the light of embryos: seeking the origins of novelties in ontogeny. , 2009, , 83-111.		8

#	ARTICLE	IF	CITATIONS
58	10.1007/s11492-008-2002-y. , 2010, 42, 114.		2
59	Scientific Authority in the Creationâ€“Evolution Debates. <i>Evolution: Education and Outreach</i> , 2010, 3, 641-660.	0.3	3
60	Evidence for Evolution Versus Evidence for Intelligent Design: Parallel Confusions. <i>Evolutionary Biology</i> , 2010, 37, 68-92.	0.5	16
61	Tetrapod trackways from the early Middle Devonian period of Poland. <i>Nature</i> , 2010, 463, 43-48.	13.7	238
62	Muddy tetrapod origins. <i>Nature</i> , 2010, 463, 40-41.	13.7	23
63	Pelvic fins in teleosts: structure, function and evolution. <i>Journal of Fish Biology</i> , 2010, 77, 1173-1208.	0.7	59
64	Bare Bones Pattern Formation: A Core Regulatory Network in Varying Geometries Reproduces Major Features of Vertebrate Limb Development and Evolution. <i>PLoS ONE</i> , 2010, 5, e10892.	1.1	83
65	A Locomotor Innovation Enables Water-Land Transition in a Marine Fish. <i>PLoS ONE</i> , 2010, 5, e11197.	1.1	58
66	Ancestry of motor innervation to pectoral fin and forelimb. <i>Nature Communications</i> , 2010, 1, 49.	5.8	66
67	Analysis of <i>hoxa11</i> and <i>hoxa13</i> expression during patternless limb regeneration in <i>Xenopus</i> . <i>Developmental Biology</i> , 2010, 338, 148-157.	0.9	46
68	New Aspects of Mesozoic Biodiversity. <i>Lecture Notes in Earth Sciences</i> , 2010, , .	0.5	7
69	Appendage expression driven by the <i>Hoxd</i> Global Control Region is an ancient gnathostome feature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12782-12786.	3.3	58
71	L'enfant terrible at 30: the maturation of evolutionary developmental biology. <i>Development (Cambridge)</i> , 2011, 138, 2633-2637.	1.2	18
72	A new species of <i>Laccognathus</i> (<i>Sarcopterygii</i> , <i>Porolepiformes</i>) from the Late Devonian of Ellesmere Island, Nunavut, Canada. <i>Journal of Vertebrate Paleontology</i> , 2011, 31, 981-996.	0.4	15
73	Evolution of motor innervation to vertebrate fins and limbs. <i>Developmental Biology</i> , 2011, 355, 164-172.	0.9	24
74	Evolution, missing links and climate change: recent advances in understanding transformational macroevolution. , 0, , 23-36.		0
75	Morphological and histological changes of dermal scales during the fish-to-tetrapod transition. <i>Acta Zoologica</i> , 2011, 92, 281-302.	0.6	28
76	Evolution of the axial system in craniates: morphology and function of the perivertebral musculature. <i>Frontiers in Zoology</i> , 2011, 8, 4.	0.9	59

#	ARTICLE	IF	CITATIONS
77	Evolution of vertebrate appendicular structures: Insight from genetic and palaeontological data. <i>Developmental Dynamics</i> , 2011, 240, 1005-1016.	0.8	22
79	Development and Evolution of the Muscles of the Pelvic Fin. <i>PLoS Biology</i> , 2011, 9, e1001168.	2.6	58
80	Autonomous and nonautonomous roles of Hedgehog signaling in regulating limb muscle formation. <i>Genes and Development</i> , 2012, 26, 2088-2102.	2.7	57
81	Hoxd13 Contribution to the Evolution of Vertebrate Appendages. <i>Developmental Cell</i> , 2012, 23, 1219-1229.	3.1	83
82	Mechanism of pectoral fin outgrowth in zebrafish development. <i>Development (Cambridge)</i> , 2012, 139, 2916-2925.	1.2	59
83	Assessing Students' Understanding of Macroevolution: Concerns regarding the validity of the MUM. <i>International Journal of Science Education</i> , 2012, 34, 2679-2703.	1.0	19
84	Frasnian vertebrate taphonomy and sedimentology of macrofossil concentrations from the LangsÄ“de Cliff, Latvia. <i>Lethaia</i> , 2012, 45, 356-370.	0.6	5
85	Äœner Tan Syndrome: Review and Emergence of Human Quadrupedalism in Self-Organization, Attractors and Evolutionary Perspectives. , 0, , .		7
86	A molecularâ€“morphological study of a peculiar limb morphology: the development and evolution of the mole's â€“thumbâ€“. , 2012, , 301-327.		3
87	Three-dimensional limb joint mobility in the early tetrapod <i>Ichthyostega</i> . <i>Nature</i> , 2012, 486, 523-526.	13.7	171
88	A test of the validity of range of motion studies of fossil archosaur elbow mobility using repeated-measures analysis and the extant phylogenetic bracket. <i>Journal of Experimental Biology</i> , 2012, 215, 2030-2038.	0.8	45
89	Molecular phylogenetics reveals a pattern of biome conservatism in New World anchovies (family) <i>Tj ETQq1 1 0.784314 rgBT /Overlook</i>	0.8	58
90	Synchronized swimming: coordination of pelvic and pectoral fins during augmented punting by the freshwater stingray <i>Potamotrygon orbignyi</i> . <i>Zoology</i> , 2013, 116, 144-150.	0.6	14
91	Evolution and Cell Physiology. 1. Cell signaling is all of biology. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C682-C689.	2.1	10
92	Propulsive Forces of Mudskipper Fins and Salamander Limbs during Terrestrial Locomotion: Implications for the Invasion of Land. <i>Integrative and Comparative Biology</i> , 2013, 53, 283-294.	0.9	88
93	Movement in a gravitational field: The question of limb interarticular coordination in terrestrial vertebrates. <i>European Physical Journal E</i> , 2013, 36, 49.	0.7	2
94	<i>Holoptychius bergmanni</i> sp. nov. (Sarcopterygii, Porolepiformes) from the Upper Devonian of Nunavut, Canada, and a Review of <i>Holoptychius</i> Taxonomy. <i>Proceedings of the Academy of Natural Sciences of Philadelphia</i> , 2013, 162, 47-59.	1.3	8
95	Pectoral girdle and fin anatomy of <i>Gogonasmus andrewsae</i> long, 1985: Implications for tetrapodomorph limb evolution. <i>Journal of Morphology</i> , 2013, 274, 147-164.	0.6	17

#	ARTICLE	IF	CITATIONS
96	Biomechanics and functional preconditions for terrestrial lifestyle in basal tetrapods, with special consideration of <i>Tiktaalik roseae</i> . <i>Historical Biology</i> , 2013, 25, 167-181.	0.7	17
97	Mathematical modeling of vertebrate limb development. <i>Mathematical Biosciences</i> , 2013, 243, 1-17.	0.9	26
98	The origin of the tetrapod limb: from expeditions to enhancers. <i>Trends in Genetics</i> , 2013, 29, 419-426.	2.9	73
99	The making of differences between fins and limbs. <i>Journal of Anatomy</i> , 2013, 222, 100-113.	0.9	53
100	Historical Perspectives on the Evolution of Tetrapodomorph Movement. <i>Integrative and Comparative Biology</i> , 2013, 53, 209-223.	0.9	57
101	Evolutionary Biology Redux. <i>Perspectives in Biology and Medicine</i> , 2013, 56, 455-484.	0.3	41
102	Late to the Table: Diversification of Tetrapod Mandibular Biomechanics Lagged Behind the Evolution of Terrestriality. <i>Integrative and Comparative Biology</i> , 2013, 53, 197-208.	0.9	47
103	Flipper-driven terrestrial locomotion of a sea turtle-inspired robot. <i>Bioinspiration and Biomimetics</i> , 2013, 8, 026007.	1.5	61
104	Forearm Posture and Mobility in Quadrupedal Dinosaurs. <i>PLoS ONE</i> , 2013, 8, e74842.	1.1	16
105	Humans Walking on all Four Extremities with Mental Retardation and Dysarthric or no Speech: A Dynamical Systems Perspective. , 0, , .		2
106	ll.17. Major Features of Tetrapod Evolution. , 2013, , 174-182.		0
107	Lungfish Axial Muscle Function and the Vertebrate Water to Land Transition. <i>PLoS ONE</i> , 2014, 9, e96516.	1.1	22
108	The Lineage-Specific Evolution of Aquaporin Gene Clusters Facilitated Tetrapod Terrestrial Adaptation. <i>PLoS ONE</i> , 2014, 9, e113686.	1.1	129
111	Diversity of Limb-Bone Safety Factors for Locomotion in Terrestrial Vertebrates: Evolution and Mixed Chains. <i>Integrative and Comparative Biology</i> , 2014, 54, 1058-1071.	0.9	40
112	Urodelans, Ichthyostega and the origin of the tetrapod limb. <i>Paleontological Journal</i> , 2014, 48, 1092-1103.	0.2	4
113	The endocranial anatomy of <i>Gogonasus andrewsae</i> Long, 1985 revealed through micro CT-scanning. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2014, 105, 9-34.	0.3	23
114	Animal evolution and atmospheric pO ₂ : is there a link between gradual animal adaptation to terrain elevation due to Ural orogeny and survival of subsequent hypoxic periods?. <i>Theoretical Biology and Medical Modelling</i> , 2014, 11, 47.	2.1	3
117	The Vertebrate Integument Volume 1. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
118	Biochemistry and evolutionary biology: Two disciplines that need each other. <i>Journal of Biosciences</i> , 2014, 39, 13-27.	0.5	6
119	The Problem of Pseudoscience in Science Education and Implications of Constructivist Pedagogy. <i>Science and Education</i> , 2014, 23, 829-842.	1.7	18
122	Anatomical analysis of the lizard carpal bones in the terms of skilled manual abilities. <i>Acta Zoologica</i> , 2014, 95, 249-263.	0.6	15
123	The humerus of <i>Ossinodus pueri</i> , a stem tetrapod from the Carboniferous of Gondwana, and the early evolution of the tetrapod forelimb. <i>Alcheringa</i> , 2014, 38, 209-238.	0.5	21
124	Tetrapods and the Invasion of Land. , 2014, , 99-127.		0
125	Old World Ruminant Morphophysiology, Life History, and Fossil Record: Exploring Key Innovations of a Diversification Sequence. <i>Annales Zoologici Fennici</i> , 2014, 51, 80-94.	0.2	34
126	Developmental plasticity and the origin of tetrapods. <i>Nature</i> , 2014, 513, 54-58.	13.7	168
127	Pelvic girdle and fin of <i>Tiktaalik roseae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 893-899.	3.3	60
128	Functional anatomy and kinematics of the oral jaw system during terrestrial feeding in <i>Periophthalmus barbarus</i> . <i>Journal of Morphology</i> , 2014, 275, 1145-1160.	0.6	15
129	Functional analysis of limb transcriptional enhancers in the mouse. <i>Evolution & Development</i> , 2014, 16, 207-223.	1.1	23
130	New frontiers in the evolution of fin development. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2014, 322, 540-552.	0.6	32
131	Carpus and tarsus of Temnospondyli. <i>Vertebrate Anatomy Morphology Palaeontology</i> , 0, 1, 51.	0.1	21
132	Identification and functional characterization of novel transcriptional enhancers involved in regulating human <i>GLI3</i> expression during early development. <i>Development Growth and Differentiation</i> , 2015, 57, 570-580.	0.6	9
133	Science, evolution and natural selection: in praise of Darwin at the Stazione Zoologica Anton Dohrn of Naples. <i>History and Philosophy of the Life Sciences</i> , 2015, 36, 444-455.	0.6	1
134	Organogenesis in deep time: A problem in genomics, development, and paleontology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4871-4876.	3.3	23
135	The significance and scope of evolutionary developmental biology: a vision for the 21st century. <i>Evolution & Development</i> , 2015, 17, 198-219.	1.1	92
136	Evolution of Bilaterian Animals. , 2015, , 327-403.		0
137	A fish that uses its hydrodynamic tongue to feed on land. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150057.	1.2	31

#	ARTICLE	IF	CITATIONS
138	Fishapod in the Rocks: Fossils and Biblical Creation Texts. <i>Theology and Science</i> , 2015, 13, 446-456.	0.2	0
139	A Diverse Tetrapod Fauna at the Base of 'Romer's Gap'. <i>PLoS ONE</i> , 2015, 10, e0125446.	1.1	38
140	<i>Thinopus</i> and a Critical Review of Devonian Tetrapod Footprints. <i>Ichnos</i> , 2015, 22, 136-154.	0.8	25
141	Deep conservation of wrist and digit enhancers in fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 803-808.	3.3	121
143	Deep phylogenomics of a tandem-repeat galectin regulating appendicular skeletal pattern formation. <i>BMC Evolutionary Biology</i> , 2016, 16, 162.	3.2	17
144	Origin of the vertebrate body plan via mechanically biased conservation of regular geometrical patterns in the structure of the blastula. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 121, 212-244.	1.4	11
145	Comparable disparity in the appendicular skeleton across the fish-tetrapod transition, and the morphological gap between fish and tetrapod postcrania. <i>Palaeontology</i> , 2016, 59, 249-267.	1.0	21
146	Characteristic tetrapod musculoskeletal limb phenotype emerged more than 400 MYA in basal lobe-finned fishes. <i>Scientific Reports</i> , 2016, 6, 37592.	1.6	19
147	HoxD expression in the fin-fold compartment of basal gnathostomes and implications for paired appendage evolution. <i>Scientific Reports</i> , 2016, 6, 22720.	1.6	28
148	Life history of the stem tetrapod <i>Acanthostega</i> revealed by synchrotron microtomography. <i>Nature</i> , 2016, 537, 408-411.	13.7	40
149	Extreme Modification of the Tetrapod Forelimb in a Triassic Diapsid Reptile. <i>Current Biology</i> , 2016, 26, 2779-2786.	1.8	17
150	The Role of Hox in Pisiform and Calcaneus Growth Plate Formation and the Nature of the Zeugopod/Autopod Boundary. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2016, 326, 303-321.	0.6	13
151	Novel Structures in Animals, <i>Developmental Evolution of.</i> , 2016, , 136-145.		0
152	A review on locomotion robophysics: the study of movement at the intersection of robotics, soft matter and dynamical systems. <i>Reports on Progress in Physics</i> , 2016, 79, 110001.	8.1	197
153	Land Vertebrates, the Origin and Evolution of. , 2016, , 296-304.		1
154	"We swam before we breathed or walked": able-bodied belonging in popular stories of evolutionary biology. <i>Disability and Society</i> , 2016, 31, 591-603.	1.4	3
155	The pectoral fin muscles of the coelacanth <i>Latimeria chalumnae</i> : Functional and evolutionary implications for the fin-limb transition and subsequent evolution of tetrapods. <i>Anatomical Record</i> , 2016, 299, 1203-1223.	0.8	17
156	Introduction: Fossils as Living Beings. <i>Arthropod Structure and Development</i> , 2016, 45, 69-70.	0.8	0

#	ARTICLE	IF	CITATIONS
157	Fins into limbs: Autopod acquisition and anterior elements reduction by modifying gene networks involving 5â€™Hox , Gli3 , and Shh. <i>Developmental Biology</i> , 2016, 413, 1-7.	0.9	33
158	Limb development: a paradigm of gene regulation. <i>Nature Reviews Genetics</i> , 2017, 18, 245-258.	7.7	131
159	A large onychodontiform (Osteichthyes: Sarcopterygii) apex predator from the Eifelian-aged Dundee Formation of Ontario, Canada. <i>Canadian Journal of Earth Sciences</i> , 2017, 54, 233-241.	0.6	2
160	Fin modules: an evolutionary perspective on appendage disparity in basal vertebrates. <i>BMC Biology</i> , 2017, 15, 32.	1.7	42
161	Fin-fold development in paddlefish and catshark and implications for the evolution of the autopod. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162780.	1.2	27
162	Motor neurons with limb-innervating character in the cervical spinal cord are sculpted by apoptosis based on the Hox code in chick embryo. <i>Development (Cambridge)</i> , 2017, 144, 4645-4657.	1.2	5
163	A Devonian tetrapod-like fish reveals substantial parallelism in stem tetrapod evolution. <i>Nature Ecology and Evolution</i> , 2017, 1, 1470-1476.	3.4	15
164	Dual function of the pectoral girdle for feeding and locomotion in white-spotted bamboo sharks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170847.	1.2	21
165	Terrestrial capture of prey by the reedfish, a model species for stem tetrapods. <i>Ecology and Evolution</i> , 2017, 7, 3856-3860.	0.8	10
166	10. Fish Out of Water. , 2017, , 226-243.		0
168	A new tetrapod from Romer's Gap reveals an early adaptation for walking. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017, 108, 89-97.	0.3	12
169	A partial lower jaw of a tetrapod from "Romer's Gap". <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017, 108, 55-65.	0.3	5
170	The evolutionary origin of digit patterning. <i>EvoDevo</i> , 2017, 8, 21.	1.3	20
171	Anatomical network analysis of the musculoskeletal system reveals integration loss and parcellation boost during the fins-to-limbs transition. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 601-618.	1.1	15
172	Alterations in anteriorâ€”posterior patterning and its accompanying changes along the proximalâ€”distal axis during the finâ€”toâ€”limb transition. <i>Genesis</i> , 2018, 56, e23053.	0.8	4
173	Hox D genes and the finâ€”toâ€”limb transition: Insights from fish studies. <i>Genesis</i> , 2018, 56, e23069.	0.8	8
174	Reconstructing pectoral appendicular muscle anatomy in fossil fish and tetrapods over the finâ€”toâ€”limbs transition. <i>Biological Reviews</i> , 2018, 93, 1077-1107.	4.7	34
175	Fins into limbs: Recent insights from sarcopterygian fish. <i>Genesis</i> , 2018, 56, e23052.	0.8	20

#	ARTICLE	IF	CITATIONS
176	A basal a $\tilde{}$ stopod from the earliest Pennsylvanian of Canada, and the antiquity of the first limbless tetrapod lineage. Royal Society Open Science, 2018, 5, 181056.	1.1	9
177	Tooth Loss Precedes the Origin of Baleen in Whales. Current Biology, 2018, 28, 3992-4000.e2.	1.8	40
178	How (and why) fins turn into limbs: insights from anglerfish. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 87-103.	0.3	11
179	Unique pelvic fin in a tetrapod-like fossil fish, and the evolution of limb patterning. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12005-12010.	3.3	7
180	New insights into the origins and radiation of the mid-Palaeozoic Gondwanan stem tetrapods. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 139-155.	0.3	3
181	Evolution of the muscular system in tetrapod limbs. Zoological Letters, 2018, 4, 27.	0.7	11
182	The evolution of the tetrapod humerus: morphometrics, disparity, and evolutionary rates. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 351-369.	0.3	13
183	Follow the footprints and mind the gaps: a new look at the origin of tetrapods. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 115-137.	0.3	29
184	Contributions of 5 \hat{e} ™HoxA/D regulation to actinodin evolution and the fin-to-limb transition. International Journal of Developmental Biology, 2018, 62, 705-716.	0.3	8
185	Limb Synovial Joint Development From the Hips Down. , 2018, , 67-101.		0
186	<i>Eusthenopteron jenkinsi</i> sp. nov. (Sarcopterygii, Tristichopteridae) from the Upper Devonian of Nunavut, Canada, and a Review of <i>Eusthenopteron</i> Taxonomy. Breviora, 2018, 562, 1-24.	0.2	6
187	Evolving Soft Locomotion in Aquatic and Terrestrial Environments: Effects of Material Properties and Environmental Transitions. Soft Robotics, 2018, 5, 475-495.	4.6	48
188	Problems in Fish-to-Tetrapod Transition: Genetic Expeditions Into Old Specimens. Frontiers in Cell and Developmental Biology, 2018, 6, 70.	1.8	6
189	Narrative and \hat{e} Anti-narrative \hat{e} -in Science: How Scientists Tell Stories, and Don \hat{e} ™t. Integrative and Comparative Biology, 2018, 58, 1224-1234.	0.9	14
190	A tetrapod fauna from within the Devonian Antarctic Circle. Science, 2018, 360, 1120-1124.	6.0	22
191	Effects of fin fold mesenchyme ablation on fin development in zebrafish. PLoS ONE, 2018, 13, e0192500.	1.1	27
192	Morphology of the earliest reconstructable tetrapod Parmastega aelidae. Nature, 2019, 574, 527-531.	13.7	18
193	The evolutionary origins and diversity of the neuromuscular system of paired appendages in batoids. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191571.	1.2	10

#	ARTICLE	IF	CITATIONS
194	A critical appraisal of appendage disparity and homology in fishes. <i>Fish and Fisheries</i> , 2019, 20, 1138-1175.	2.7	10
195	Evolutionary patterns of diadromy in fishes: more than a transitional state between marine and freshwater. <i>BMC Evolutionary Biology</i> , 2019, 19, 168.	3.2	18
196	The Spine: A Strong, Stable, and Flexible Structure with Biomimetics Potential. <i>Biomimetics</i> , 2019, 4, 60.	1.5	25
197	Developmental Biology: Hox Timing Determines Limb Placement. <i>Current Biology</i> , 2019, 29, R52-R54.	1.8	6
198	Joints in the appendicular skeleton: Developmental mechanisms and evolutionary influences. <i>Current Topics in Developmental Biology</i> , 2019, 133, 119-151.	1.0	33
199	Sarcopterygian Fishes, the "Lobe-Fins": Fascinating Life Sciences, 2019, , 119-142.	0.5	0
200	Evolutionary parallelisms of pectoral and pelvic network-anatomy from fins to limbs. <i>Science Advances</i> , 2019, 5, eaau7459.	4.7	18
201	Terrestriality constrains salamander limb diversification: Implications for the evolution of pentadactyly. <i>Journal of Evolutionary Biology</i> , 2019, 32, 642-652.	0.8	15
202	What Fish Can Teach Us about the Feeding Functions of Postcranial Muscles and Joints. <i>Integrative and Comparative Biology</i> , 2019, 59, 383-393.	0.9	8
203	Using zebrafish to study skeletal genomics. <i>Bone</i> , 2019, 126, 37-50.	1.4	55
205	Evolutionary homology in the fin-to-limb transition: evaluating the morphology of foramina in a Late Devonian humerus from the Catskill Formation, Clinton County, Pennsylvania. <i>Journal of Vertebrate Paleontology</i> , 2019, 39, e1718682.	0.4	1
206	Systematicity theory meets Socratic scientific realism: the systematic quest for truth. <i>Synthese</i> , 2019, 196, 833-861.	0.6	3
207	Development and growth of the pectoral girdle and fin skeleton in the extant coelacanth <i>Latimeria chalumnae</i> . <i>Journal of Anatomy</i> , 2020, 236, 493-509.	0.9	10
208	Fin ray patterns at the fin-to-limb transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1612-1620.	3.3	18
209	Deconstructing the long-standing a priori assumption that serial homology generally involves ancestral similarity followed by anatomical divergence. <i>Journal of Morphology</i> , 2020, 281, 1110-1132.	0.6	10
210	Mandibular musculature constrains brain endocast disparity between sarcopterygians. <i>Royal Society Open Science</i> , 2020, 7, 200933.	1.1	7
211	Prüfungstrainer Spezielle Zoologie. , 2020, , .		0
212	The tree and the table: Darwin, Mendeleev and the meaning of "theory". <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190309.	1.6	3

#	ARTICLE	IF	CITATIONS
213	Sarcopterygian fin ontogeny elucidates the origin of hands with digits. <i>Science Advances</i> , 2020, 6, eabc3510.	4.7	28
214	Survey of biomechanical aspects of arthropod terrestrialisation – Substrate bound legged locomotion. <i>Arthropod Structure and Development</i> , 2020, 59, 100983.	0.8	10
215	Elpistostege and the origin of the vertebrate hand. <i>Nature</i> , 2020, 579, 549-554.	13.7	46
216	Functional adaptive landscapes predict terrestrial capacity at the origin of limbs. <i>Nature</i> , 2021, 589, 242-245.	13.7	33
217	Elucidating the early signaling cues involved in zebrafish chondrogenesis and cartilage morphology. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2021, 336, 18-31.	0.6	7
218	Osteichthyes or Bony Fishes. , 2021, , 121-137.		4
220	A developmental perspective of homology and evolutionary novelty. <i>Current Topics in Developmental Biology</i> , 2021, 141, 1-38.	1.0	13
221	Tetrapod Origins. , 2021, , 138-146.		2
222	Bones of contention: skeletal patterning across the fin-to-limb transition. <i>Cell</i> , 2021, 184, 854-856.	13.5	0
223	Ontogenetic development of the shoulder joint muscles in frogs (Amphibia: Anura) assessed by digital dissection with implications for interspecific muscle homologies and nomenclature. <i>Zoomorphology</i> , 2021, 140, 119-142.	0.4	4
224	Latent developmental potential to form limb-like skeletal structures in zebrafish. <i>Cell</i> , 2021, 184, 899-911.e13.	13.5	36
225	Hoxd13/Bmp2-mediated mechanism involved in zebrafish finfold design. <i>Scientific Reports</i> , 2021, 11, 7165.	1.6	1
226	Evolution: The deep genetic roots of tetrapod-specific traits. <i>Current Biology</i> , 2021, 31, R467-R469.	1.8	7
227	Development of the Pectoral Lobed Fin in the Australian Lungfish <i>Neoceratodus forsteri</i> . <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	2
229	Conserved Mechanisms, Novel Anatomies: The Developmental Basis of Fin Evolution and the Origin of Limbs. <i>Diversity</i> , 2021, 13, 384.	0.7	3
230	The Evolution of Appendicular Muscles During the Fin-to-Limb Transition: Possible Insights Through Studies of Soft Tissues, a Perspective. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	1.1	4
231	Spatial regulation by multiple Gremlin1 enhancers provides digit development with cis-regulatory robustness and evolutionary plasticity. <i>Nature Communications</i> , 2021, 12, 5557.	5.8	17
232	Identification of limb-specific Lmx1b auto-regulatory modules with Nail-patella syndrome pathogenicity. <i>Nature Communications</i> , 2021, 12, 5533.	5.8	13

#	ARTICLE	IF	CITATIONS
233	Evo-Devo of the Fin-to-Limb Transition. , 2021, , 907-920.		2
234	Evolution of forelimb musculoskeletal function across the fish-to-tetrapod transition. Science Advances, 2021, 7, .	4.7	32
235	Ancestral developmental potentials in early bony fish contributed to vertebrate water-to-land transition. Zoological Research, 2021, 42, 135-137.	0.9	5
237	Biology and Religion: The Case for Evolution. History, Philosophy and Theory of the Life Sciences, 2013, , 161-177.	0.4	3
238	The fish that crawled out of the water. Nature, 0, , .	13.7	2
240	Biphasic Hoxd Gene Expression in Shark Paired Fins Reveals an Ancient Origin of the Distal Limb Domain. PLoS ONE, 2007, 2, e754.	1.1	108
241	A Marine Stem-Tetrapod from the Devonian of Western North America. PLoS ONE, 2012, 7, e33683.	1.1	52
242	Oldest Pathology in a Tetrapod Bone Illuminates the Origin of Terrestrial Vertebrates. PLoS ONE, 2015, 10, e0125723.	1.1	25
243	Data Sources for Trait Databases: Comparing the Phenomic Content of Monographs and Evolutionary Matrices. PLoS ONE, 2016, 11, e0155680.	1.1	6
244	Feeding by raphidophytes on the cyanobacterium Synechococcus sp.. Aquatic Microbial Ecology, 2010, 58, 181-195.	0.9	39
245	A primal role for the vestibular sense in the development of coordinated locomotion. ELife, 2019, 8, .	2.8	44
246	Evolution of the patellar sesamoid bone in mammals. PeerJ, 2017, 5, e3103.	0.9	39
247	How big can a walking fish be? A theoretical inference based on observations on four land-dwelling fish genera of South Vietnam. Integrative Zoology, 2022, 17, 849-878.	1.3	3
250			

#	ARTICLE	IF	CITATIONS
256	Palaeozoic Non-Amniote Tetrapods†. , 2014, , .		0
260	Baraminological analysis of Devonian and Carboniferous tetrapodomorphs. The Proceedings of the International Conference on Creationism, 2018, 8, 458-471.	0.0	0
265	Asterolepis alticristata n. sp. (Antiarchi) from the Upper Devonian (Frasnian) of Nunavut, Canada, and a report on the antiarch diversity of the Fram Formation. Geodiversitas, 2019, 41, 679.	0.2	0
266	Evo-Devo of the Fin-to-Limb Transition. , 2020, , 1-14.		0
267	Spezielle Zoologie Teil C: Bilateria â€“ Deuterostomia. , 2020, , 173-249.		0
268	The <i>Shh</i> / <i>Gli3</i> gene regulatory network precedes the origin of paired fins and reveals the deep homology between distal fins and digits. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
269	Comparative anatomy of the fin muscles of non-sarcopterygian fishes, with notes on homology and evolution. Annals of Anatomy, 2020, 230, 151507.	1.0	1
271	Six New Arguments for Scientific Realism. Synthese Library, 2022, , 67-87.	0.1	0
272	Scientific Realism and Scientific Progress. Synthese Library, 2022, , 155-176.	0.1	0
274	Macrostratigraphy: Insights into Cyclic and Secular Evolution of the Earth-Life System. Annual Review of Earth and Planetary Sciences, 2022, 50, 419-449.	4.6	8
275	Topology-Based Three-Dimensional Reconstruction of Delicate Skeletal Fossil Remains and the Quantification of Their Taphonomic Deformation. Frontiers in Ecology and Evolution, 2022, 10, .	1.1	10
276	Anatomic position determines oncogenic specificity in melanoma. Nature, 2022, 604, 354-361.	13.7	44
277	Patterns and processes in amphibious fish: biomechanics and neural control of fish terrestrial locomotion. Journal of Experimental Biology, 2022, 225, .	0.8	6
281	EcoPhysioMechanics: Integrating Energetics and Biomechanics to Understand Fish Locomotion under Climate Change. Integrative and Comparative Biology, 2022, 62, 711-720.	0.9	5
282	Air Breathing and Suction Feeding Kinematics in the West African Lungfish, <i>Protopterus Annectens</i>. Integrative and Comparative Biology, 0, , .	0.9	4
283	The operational approach to the problem of tetrapodization. Paleontological Journal, 2008, 42, 114-126.	0.2	0
284	A new elpistostegalian from the Late Devonian of the Canadian Arctic. Nature, 2022, 608, 563-568.	13.7	2
285	In vivo and ex vivo range of motion in the fire salamander <i>Salamandra salamandra</i>. Journal of Anatomy, 2022, 241, 1066-1082.	0.9	5

#	ARTICLE	IF	CITATIONS
286	HOX-Gene Cluster Organization and Genome Duplications in Fishes and Mammals: Transcript Variant Distribution along the Anterior–Posterior Axis. <i>International Journal of Molecular Sciences</i> , 2022, 23, 9990.	1.8	1
287	Early tetrapod cranial evolution is characterized by increased complexity, constraint, and an offset from fin-limb evolution. <i>Science Advances</i> , 2022, 8, .	4.7	3
288	Roles of Mono- and Bi-articular Muscles in Human Limbs: Two-joint Link Model and Applications. <i>Integrative Organismal Biology</i> , 0, , .	0.9	0
289	Ossification patterns of the carpus and tarsus in salamanders and impacts of preaxial dominance on the fin-to-limb transition. <i>Science Advances</i> , 2022, 8, .	4.7	2
290	One size does not fit all: Variation in anatomical traits associated with emersion behavior in mudskippers (Gobiidae: Oxudercinae). <i>Frontiers in Ecology and Evolution</i> , 0, 10, .	1.1	0
291	Gene expression changes during the evolution of the tetrapod limb. <i>Biologia Futura</i> , 0, , .	0.6	1
292	Urban evolutionary ecology brings exaptation back into focus. <i>Trends in Ecology and Evolution</i> , 2023, 38, 719-726.	4.2	2
293	Origins and evolution of biological novelty. <i>Biological Reviews</i> , 2023, 98, 1472-1491.	4.7	3
301	The Neck: Development and Evolution. , 2023, , 781-940.		0
303	Biological Diversity in Deep Time. , 2024, , 251-263.		0
308	On the Origin of Tentacles and Limbs in Deuterostomia. <i>Russian Journal of Marine Biology</i> , 2023, 49, S2-S28.	0.2	0